

24 GHz Service

Auction # 56

DISCLAIMER

- Nothing herein is intended to supersede any provision of the Commission's rules or public notices. These slides should not be used as a substitute for a prospective applicant's review of the Commission's relevant orders, rules, and public notices. Prospective applicants must familiarize themselves thoroughly and remain current with the Commission's rules relating to the 24 GHz Service, rules relating to application and auction procedures, and the procedures, terms and conditions contained in the Auction No. 56 public notices.

GEOGRAPHIC LICENSING AREA

- Economic Areas
- Include a total of 176 service areas
- 172 service areas specified by the Department of Commerce
- 4 EA-like areas:
 - Guam and the Northern Mariana Islands
 - Puerto Rico and the United Virgin Islands
 - American Samoa
 - Gulf of Mexico

SPECTRUM BLOCKS

- Channel 35: 24,250-24,290 / 25,050-25,090 MHz
- Channel 36: 24,290-24,330 / 25,090-25,130 MHz
- Channel 37: 24,330-24,370 / 25,130-25,170 MHz
- Channel 38: 24,370-24,410 / 25,170-25,210 MHz
- Channel 39: 24,410-24,450 / 25,210-25,250 MHz

- Each channel consists of two paired 40 MHz frequency blocks within the bands of 24.25-24.45 GHz and 25.05-25.25 GHz.

- The 24 GHz spectrum can be used for any kind of digital fixed communications service consistent with the Commission's rules.

INCUMBENTS

- Incumbent 18 GHz Digital Electronic Message Service (DEMS) licensees were required to relocate their operations to the 24 GHz band by January 1, 2001.
- Radio Service for Incumbent licensees is CE or PE.
- Such licensees will be governed by Part 101 of the Rules.
- Incumbents will retain exclusive rights to their licensed channels within its Standard Metropolitan Statistical Areas (SMSA). **Please note: SMSAs are based on the definitions listed in the Standard Metropolitan Areas, 1975, Office of Management and Budget as amended June 1981.**
- To view SMSAs, visit Office of Engineering and Technology (OET) web page at <http://www.fcc.gov/oet/info/maps/areas/>.
- Protection requirements set forth in Section 101.509 of the rules will allow incumbent licensees and new licensees to effectively coordinate their systems to avoid harmful interference.
- The term DEMS will no longer be a reference in the rules for 24 GHz.

<http://www.fcc.gov/oet/info/maps/areas/>

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Standard Metropolitan Statistical Areas 1980 SMSA1980

In General Docket 79-188 the FCC created the Digital Electronic Message Service (DEMS). This service was to be licensed on a market basis and it was decided to use the 323 SMSAs that resulted from the 1980 Census. SMSAs are unique in that they are not continuous across the nation. Also, they aggregate minor civil divisions (towns and cities) as opposed to county-equivalents in New England.

Cite: Standard Metropolitan Statistical Areas defined by Office of Management and Budget, June 30, 1981.

- [Names](#)
- [County and MCD list](#)
- [Map](#) (Adobe PDF)
- [Data](#) (MapInfo Interchange Format and MapInfo Native Table Format)
- Service
 - o Original* Digital Electronic Message Service (DEMS) - 18 GHz and 24 GHz

* The modern DEMS service areas will be decided in WT Docket 99-327. In the recent NPRM, FCC 99-333 ([News Release](#) | [Notice](#)), the FCC proposed to use Economic Areas (BEA).

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Nationwide Area (NWA) 1990

The 50 States, the District of Columbia, American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and United States Virgin Islands, (NWA255)

Cite: Nationwide Area delineated by the Federal Communications Commission, 59 FR 14115 (March 25, 1994)

- Service:



```
"smsa", "name"  
"0040", "Abilene, TX"  
"0080", "Akron, OH"  
"0120", "Albany, GA"  
"0160", "Albany-Schenectady-Troy, NY"  
"0200", "Albuquerque, NM"  
"0220", "Alexandria, LA"  
"0240", "Allentown-Bethlehem, PA-NJ"  
"0280", "Altoona, PA"  
"0320", "Amarillo, TX"  
"0360", "Anaheim-Santa Ana-Garden Grove, CA"  
"0380", "Anchorage, AK"  
"0400", "Anderson, IN"  
"0405", "Anderson, SC"  
"0440", "Ann Arbor, MI"  
"0450", "Anniston, AL"  
"0460", "Appleton-Oshkosh, WI"  
"0470", "Arecibo, PR"  
"0480", "Asheville, NC"  
"0500", "Athens, GA"  
"0520", "Atlanta, GA"  
"0560", "Atlantic City, NJ"  
"0600", "Augusta, GA-SC"  
"0640", "Austin, TX"  
"0680", "Bakersfield, CA"  
"0720", "Baltimore, MD"  
"0730", "Bangor, ME"  
"0760", "Baton Rouge, LA"  
"0780", "Battle Creek, MI"  
"0800", "Bay City, MI"  
"0840", "Beaumont-Port Arthur-Orange, TX"  
"0860", "Bellingham, WA"  
"0870", "Benton Harbor, MI"  
"0880", "Billings, MT"  
"0920", "Biloxi-Gulfport, MS"  
"0960", "Binghamton, NY-PA"
```

File Edit View Favorites Tools Help

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Address <http://www.fcc.gov/oet/info/maps/areas/xref/xrefsmsa1980.txt> Go

Links [ULS](#) [TULS Public Search](#) [TULS Database](#) [WTB Intranet](#) [WTB Internet](#) [Federal Register](#) [FCC Intranet](#) [FCC Internet](#) [Land Mobile Retrieval](#)

From: <http://www.census.gov/population/www/estimates/pastmetro.html>

STANDARD METROPOLITAN STATISTICAL AREAS AND COMPONENTS, 1981 WITH FIPS CODES

(Standard Metropolitan Statistical Areas defined by Office of Management and Budget, 6/30/81)

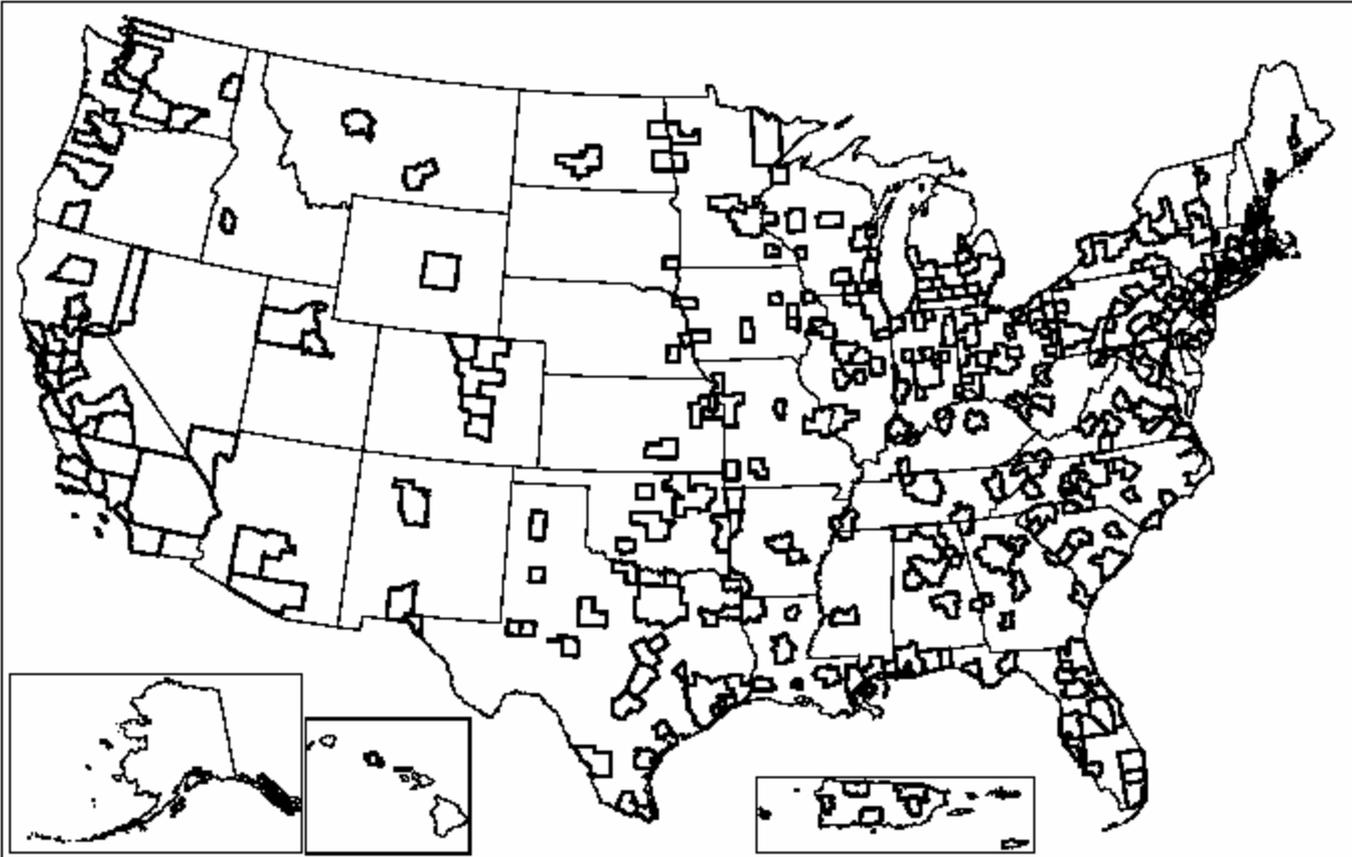
Source: U.S. Census Bureau
 Internet Release Date: November 18, 1999

ABBREVIATIONS:
 SMSA= Standard Metropolitan Statistical Area
 SCSA= Standard Consolidated Statistical Area

The file layout is located at the end of the data file.

SMSA	STATE/ COUNTY	CITY/ TOWN	Standard Metropolitan Statistical Area and Components
FIPS CODE	SCSA CODE	FIPS CODE	FIPS CODE
0040			Abilene, TX SMSA
0040		48059	Callahan County
0040		48253	Jones County
0040		48441	Taylor County
0080	28		Akron, OH SMSA
0080	28	39133	Portage County
0080	28	39153	Summit County
0120			Albany, GA SMSA
0120		13095	Dougherty County
0120		13177	Lee County
0160			Albany-Schenectady-Troy, NY SMSA
0160		36001	Albany County
0160		36057	Montgomery County

Viewing
Standard Metropolitan Statistical Areas (SMSA1980)

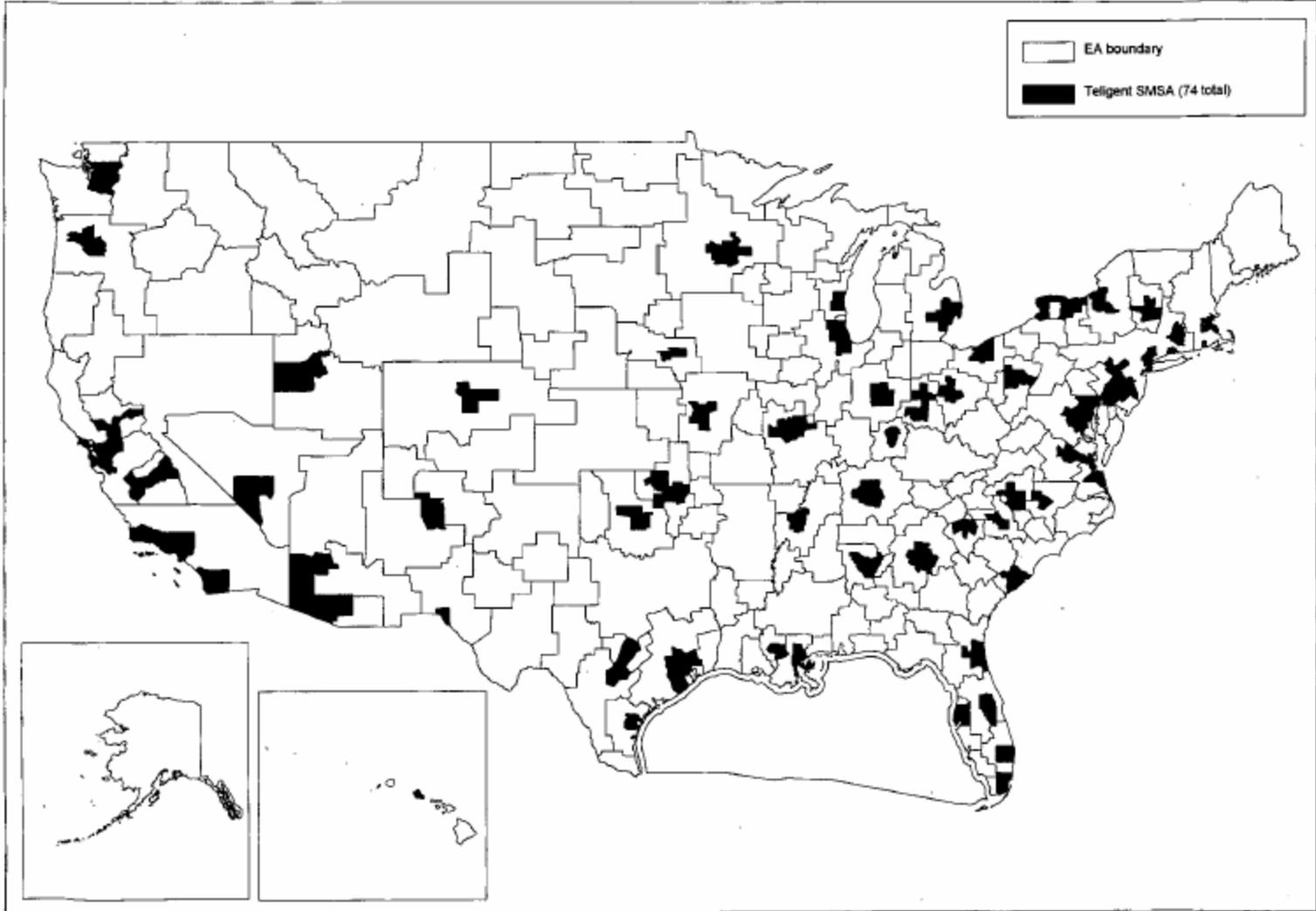


Standard Metropolitan Statistical Areas defined by
Office of Management and Budget, June 30, 1981

Federal Communications Commission
Office of Engineering and Technology
Michael R. Davis

Fit in Window

Economic Areas (EAs) vs Teligent, Standard Metropolitan Statistical Areas (SMSAs)



FCC/WTB
M.C. Del Rosario 07/10/00

Due Diligence

- Due Diligence: What is required before you place your bid?
- Information to aid potential bidders with their research and evaluation of the radio spectrum, in this instance, 24 GHz.
- Presents issues that should be considered by potential bidders when formulating their business strategies.
 - See Auctions web site: <http://wireless.fcc.gov/auctions/56/>

Due Diligence

- Pending Matters
 - Certain Matters relating to licenses available at auction may be pending or subject to administrative or judicial review
 - Such matter may include, e.g., waiver requests, petitions to deny, petitions for reconsideration, applications for review
 - Some matters may not be resolved before the commencement of the auction
 - Resolution of these matters could affect the availability of spectrum purchased at auction and must be considered by potential bidders
 - Make periodic, and continuing, inquiries to the Office of the Secretary and other available resources
 - Read the Procedures Public Notice
 - The Commission makes no representations or guarantees that listed matters are only pending matters that could affect availability of spectrum

Do your Due Diligence

- Do your homework
- Research prospective markets and spectrum
- Be familiar with the Commission's rules and proceedings relating to 24 GHz

It Is Your Responsibility

- As potential bidders, you are solely responsible for identifying associated risks, and investigating and evaluating the degree to which such matters may affect your ability to bid on, otherwise acquire, or make use of licenses available in the auction.

Database Research

- Information regarding 24 GHz Service licenses is available through the Universal Licensing System (ULS)
- The Commission makes no representations or guarantees regarding the accuracy or completeness of its database
- Do not rely solely on database searches because the data relies on third party submissions
- Physically inspect any sites located in, or near, the geographic area for which you plan to bid

<http://wireless.fcc.gov/uls/>



Universal Licensing System

FCC > WTB > ULS

[FCC Site Map](#)

Search:
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- [ULS Online Filing](#)

ULS Online Systems ★ - New & Improved

All applications are operating properly.

REGISTER Obtain an FRN and associate it with your call signs and ASRs.

FILE Apply for a new license, renew, modify, transfer control and more.
[Filing Purposes](#) | [Batch Filing](#) | [Getting Started](#) | [Pay Fees](#)

SEARCH Find licenses using the **enhanced** license search across all services.

Find applications.

Find archived licenses.

Go to: [ASR](#) | [TOWAIR](#) | [Tower Construction Notification](#) | [Ownership](#)

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4/14/2004
PUBLIC NOTICE (DA 04-1009)
[Email Notifications Will Be Sent to Public Safety and Governmental Entity Licensees 90, 60, 30, and 10 Days Prior to License Expiration, Beginning April 16, 2004](#)
[pdf](#) - [Word](#)

4/6/2004
PUBLIC NOTICE (DA 04-958)
[WTB to Dismiss All Applications Filed on FCC Form 605 With Editions Dates Prior to December 2003, Effective With Receipts of May 3, 2004](#)

Alerts

[System Hanging When Trying to Submit CORES FRN Now Required for ASR & ULS](#)

[More Alerts](#)

Downtime Schedule

No downtimes scheduled, with the exception of the Daily downtimes.
[Daily: 12:15 AM - 2:15 AM ET](#)

Current Audits

[220 MHz](#)
Audit Completed

[Private Land Mobile \(PLMRS\)](#)
Stage: 3rd Letter Notice of Cancellation Mailing Completed

Technical & Licensing Support

[Tech Support Home](#)
[Dialup Connections](#)
[Getting Connected](#)
[New Users](#)

Universal Licensing System

FCC > WTB > ULS > Online Systems > License Search [FCC Site Map](#)

License Search [? HELP](#)

The ULS License Search enables you to search for a wide range of licenses in the Universal Licensing System. The License Search here provides access to the most basic attributes of a license. You can also specify more attributes combinations with the [Advanced Search](#) and search within services like [Amateur](#) using service-specific criteria. Please be aware that some combinations of search criteria may result in a longer wait.

License Search

By Call Sign =

all matches exact matches only

[Advanced License Search](#)

Advanced

Want to search for licenses of any radio service code based on combinations of general license attributes?

[Advanced License Search](#)

Advanced License Search includes:

- ▶ Licensee State, ZIP, and Name
- ▶ Dates (Grant, Last Action, etc)
- ▶ License Status
- ▶ Radio Service Code
- ▶ And more...

Service-Specific

Want to search within a service using criteria relevant to that specific service?

- [Aircraft](#)
- [Amateur](#)
Vanity Call Signs, Operator Class, and more!
- [Commercial/Restricted Permits](#)
Operator Class, COLEM, and more!
- [GMRS](#)

Market-Based

Want to search for licenses in given markets?

→ [Market Based](#)
Search by auction number, frequency range, markets, and more!

service code based on combinations of general license attributes?

→ Advanced License Search

Advanced License Search includes:

- ▶ Licensee State, ZIP, and Name
- ▶ Dates (Grant, Last Action, etc)
- ▶ License Status
- ▶ Radio Service Code
- ▶ And more...

→ Geographic

Search by Coordinates, County/State and more!

relevant to that specific service?

- [Aircraft](#)
- [Amateur](#)
Vanity Call Signs, Operator Class, and more!
- [Commercial/Restricted Permits](#)
Operator Class, COLEM, and more!
- [GMRS](#)
- [Ship](#)
MMSI#, Ship Name, and more!
- [MDS/ITFS](#)

→ Market Based

Search by auction number, frequency range, markets, and more!

ULS Help	ULS Glossary - FAQ - Online Help - Technical Support
ULS Online Systems	CORES/Call Sign Registration - ULS Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By Call Sign <input type="text"/> = <input type="text"/> <input type="button" value="SUBMIT"/> <input type="button" value="RESET"/>

Universal Licensing System

FCC > WTB > ULS > Online Systems > License Search [FCC Site Map](#)

License Search [? HELP](#)

Advanced License Search

[License Search Home](#)

SUBMIT **GEOSEARCH** **RESET**

*Please be aware that some combinations of search criteria may result in a longer wait.

Call Sign & Radio Services

Call Sign

Service Group

- Match all radio services within this group
- Match only the following radio service(s):

- AA - Aviation Auxiliary Group
- AB - Aural Microwave Booster
- AC - Aircraft
- AF - Aeronautical and Fixed
- AI - Aural Intercity Relay

Licensee

Name

Licensee ID

FRN

City†

State†

ZIP Code†

†: Matches licensee mailing address, not transmit locations.

License Detail

Status Active Expired
 Canceled Terminated

Authorization Type Regular Developmental
 STA Demonstration

Dates

From to
 (Date Format: MM/DD/YYYY)

Frequencies

Frequency Any Frequency
 Exact MHz
 Range MHz to MHz

Customize Your Results

Match Type All Matches Exact Matches Only

Results Display matches per page
 by in order

GEOSearch RESET

*Please be aware that some combinations of search criteria may result in a longer wait.

Internal License Search

License Search

Advanced License Search

[? HELP](#)

[License Search Home](#)

SUBMIT **GEOSEARCH** **RESET**

*Please be aware that some combinations of search criteria may result in a longer wait.

Call Sign & Radio Services

Call Sign

Service Group

- Match all radio services within this group
- Match only the following radio service(s):

- CB - BETRS
- CD - Paging and Radiotelephone
- CE - Digital Electronic Message Service - Common Carrier**
- CF - Common Carrier Fixed Point to Point Microwave
- CG - General Aviation Air-ground Radiotelephone

Licensee

Name

Licensee ID

FRN

City†

State†

City†

State†

ZIP Code†

†: Matches licensee mailing address, not transmit locations.

License Detail

Status Active Expired
 Canceled Terminated

Authorization Type Regular Developmental
 STA Demonstration

Dates

From to
 (Date Format: MM/DD/YYYY)

Frequencies

Frequency Any Frequency
 Exact MHz
 Range MHz to MHz

Customize Your Results

Match Type All Matches Exact Matches Only

Results Display matches per page
 sorted by in order

SUBMIT GEOSEARCH RESET

*Please be aware that some combinations of search criteria may result in a longer wait.

Internal License Search

License Search **Advanced License Search** [? HELP](#)
[License Search Home](#)

SUBMIT **GEOSEARCH** **RESET**

*Please be aware that some combinations of search criteria may result in a longer wait.

Call Sign & Radio Services

Call Sign

Service Group

- Match all radio services within this group
- Match only the following radio service(s):

- CA - Commercial Air-ground Radiotelephone
- CB - BETRS
- CD - Paging and Radiotelephone
- CE - Digital Electronic Message Service - Common Carrier**
- CF - Common Carrier Fixed Point to Point Microwave

Licensee

Name

Licensee ID

FRN

City†

State†

State+ [dropdown]
ZIP Code+ [input]

†: Matches licensee mailing address, not transmit locations.

License Detail

Status Active Expired
 Canceled Terminated

Authorization Type Regular Developmental
 STA Demonstration

Dates [dropdown]
 [dropdown]
 From [input] to [input]
(Date Format: MM/DD/YYYY)

Frequencies

Frequency Any Frequency
 Exact [input] MHz
 Range [input] MHz to [input] MHz

Customize Your Results

Match Type All Matches Exact Matches Only

Results Display [input] matches per page
sorted by [input] in [input] order

SUBMIT GEOSEARCH RESET

*Please be aware that some combinations of search criteria may result in a longer wait.

Internal License Search

License Search [? HELP](#)
Search Results

[New Search](#) [Refine Search](#) [Printable Page](#) [Query Download](#) [Map License](#)

Specified Search

Radio Service = CE
 Frequency Upper Band >= 24250
 Frequency Assigned <= 24450

Matches 1- 100 (of 102)

1 2 [[Next: 101-102>>](#)] [PA]= Pending Application(s)

	Call Sign	Licensee Name	FRN	Radio Service	Status	Expiration Date
1	[PA] WMF840	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
2	[PA] WMF841	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
3	[PA] WMF842	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
4	[PA] WMF843	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
5	[PA] WMF844	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
6	[PA] WMF845	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
7	[PA] WMF846	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
8	[PA] WMF847	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
9	[PA] WMF848	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
10	[PA] WMF849	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
11	[PA] WMF850	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
12	[PA] WMF851	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
13	[PA] WMF852	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
14	[PA] WMF854	TELIGENT, INC.	0004371415	CE	Active	02/01/2011

Internal License Search

ULS License ? HELP
Digital Electronic Message Service - Common Carrier License - WMF840 - TELIGENT, INC.

[New Search](#) [Refine Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#) [Map License](#)

MAIN ADMIN LOCATIONS PATHS

PA This license has pending applications: [0001679126](#)

Call Sign	WMF840	Radio Service	CE - Digital Electronic Message Service - Common Carrier
Status	Active	Auth Type	Regular

Dates

Grant	03/13/2001	Expiration	02/01/2011
Effective	09/09/2002	Cancellation	

Control Points
 None

Licensee

Licensee ID	L00163444	FRN	0004371415	Type	Corporation
SGIN	000		(View Ownership)		

Licensee
 TELIGENT, INC.
 460 Herndon Parkway, Suite 100
 Herndon, VA 20170
 ATTN Terri B. Natoli, Esq.
 P:(703)326-4650
 F:(703)326-4185
 E:terri.natoli@teligent.com

Contact

Contact

TELIGENT, INC. 460 Herndon Parkway, Suite 100 Herndon, VA 20170	P:(703)326-4650 F:(703)326-4185 E:terri.natoli@teligent.com
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Microwave Data

Oper Type	Digital Electronic Message Service (DEMS)	Station Class	FXO - Operational Fixed
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Qualifications, Ownership, and Demographics

Radio Service Type	Fixed		
Regulatory Status	Common Carrier, Non-Common Carrier	Interconnected?	Yes

Alien Ownership
The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications
The Applicant answered "No" to each of the [Basic Qualification](#) questions.

Race		Gender	
Hispanic/Latino?			

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Basic Search	By Call Sign <input type="text"/> = <input type="text"/> <input type="button" value="SUBMIT"/> <input type="button" value="RESET"/>

Internal License Search

Digital Electronic Message Service - Common Carrier License - WMF840 - TELIGENT, INC.

[? HELP](#)

Administration

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- [MAIN](#)
[ADMIN](#)
[LOCATIONS](#)
[PATHS](#)

Call Sign	WMF840	Radio Service	CE - Digital Electronic Message Service - Common Carrier
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Applications

Receipt Date	File Number and Type	Status
04/06/2004	0001679126 TC - Transfer of Control	Pending Level 2
09/19/2002	0001033759 NT - Required Notification (C)	Granted
07/03/2002	0000948563 AA - Assignment of Authorization	Consummated

[All Applications \(17\)](#)

Automated Letters

11/13/2000 [577951 Renewal Reminder](#)

External Comments

None

Internal Comments

03/10/2004 The license was corrected to add "SMSA" in the location name field.

History

03/10/2004 Internal Correction Applied

External Comments		
None		
Internal Comments		
03/10/2004	The license was corrected to add "SMSA" in the location name field.	
History		
03/10/2004	Internal Correction Applied	
03/10/2004	Internal Correction Applied	
09/12/2002	License Assigned (Full Assignment)	
All History (19)		
Special Conditions		
Refer to Locations tab and Frequencies on the path tab for special conditions at those levels		
None		
Attachments		
Type	Description	Date Entered
None		

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Internal License Search

Digital Electronic Message Service - Common Carrier License - WMF840 - TELIGENT, INC.

[? HELP](#)

Locations Summary

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- MAIN
- ADMIN
- LOCATIONS**
- PATHS

Call Sign	WMF840	Radio Service	CE - Digital Electronic Message Service - Common Carrier
1 Total Location 10 Locations per Summary Page			
Fixed Transmit Location 1: MILWAUKEE SMSA			
Transmit Location 777 E WISCONSIN AVE MILWAUKEE, WI MILWAUKEE County		Coordinates	43-02-18.0 N, 087-54-05.3 W
Site Elevation (AMSL)		Height w/o Appurtenances	
ASR #		Height w/ Appurtenances	6.1m
Site Structure			
Special Conditions	None		
1 Total Location 10 Locations per Summary Page			

Internal License Search

Digital Electronic Message Service - Common Carrier License - WMF840 - TELIGENT, INC.

[? HELP](#)

Paths Summary

[New Search](#)
[Refine Search](#)
[Return to Results](#)
[Printable Page](#)
[Reference Copy](#)
[Map License](#)

MAIN		ADMIN		LOCATIONS		PATHS	
Call Sign	WMF840	Radio Service	CE - Digital Electronic Message Service - Common Carrier				
Transmitter	MILWAUKEE SMSA	Coordinates	43-02-18.0 N , 087-54-05.3 W				
4 Total Paths		Path: 1 <input type="button" value="GO"/>					
Path 1 - Nodal-User							
Path Details		Rec. Call Sign					
Path Frequencies							
18890.00000-18900.00000		18900.00000-18910.00000		18910.00000-18920.00000			
Path 2 - Nodal-User							
Path Details		Rec. Call Sign					
Path Frequencies							
24330.00000-24370.00000		24370.00000-24410.00000		24410.00000-24450.00000			
Path 3 - User-Nodal							
Path Details		Rec. Call Sign	WMF840				

Path 2 - Nodal-User

Path Details	Rec. Call Sign	
Path Frequencies		
24330.00000-24370.00000	24370.00000-24410.00000	24410.00000-24450.00000

Path 3 - User-Nodal

Path Details	Rec. Call Sign	WMF840
Path Frequencies		
19230.00000-19240.00000	19240.00000-19250.00000	19250.00000-19260.00000

Path 4 - User-Nodal

Path Details	Rec. Call Sign	WMF840
Path Frequencies		
25130.00000-25170.00000	25170.00000-25210.00000	25210.00000-25250.00000

4 Total Paths Path: 1 GO

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Internal License Search

Digital Electronic Message Service - Common Carrier License - WMF840 - TELIGENT, INC.

[? HELP](#)

Path 2

[New Search](#) [Refine Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#) [Map License](#)

MAIN
ADMIN
LOCATIONS
PATHS

Call Sign	WMF840	Radio Service	CE - Digital Electronic Message Service - Common Carrier
4 Total Paths Return to Paths Summary		Path: 2	<input type="button" value="GO"/>

Path 2 - NU

MAS/DEMS Sub-Type of Operation Multiple Two-Way DEMS

Transmit Location: MILWAUKEE SMSA

Coordinates	43-02-18.0 N, 087-54-05.3 W		Elevation (AMSL)	
Polarization	S - Horizontal and Vertical	Azimuth	360.0°	Elevation Angle

Transmit Antenna

Height	6.1m	Beamwidth	360.0°	Gain	15.0dBi
--------	------	-----------	--------	------	---------

Diversity Antenna

Height		Beamwidth		Gain	
--------	--	-----------	--	------	--

Periscope Reflector

Height		Width		Separation	
--------	--	-------	--	------------	--

Receiver Antenna

Periscope Reflector				
Height		Width		Separation

Receiver Antenna				
Height	6.1m	Beamwidth		Gain
				36.0dBi

Diversity Antenna				
Height		Beamwidth		Gain

Periscope Reflector				
Height		Width		Separation

3 Frequencies

Frequency (MHz)	Tolerance	EIRP	ATPC	Emission Designators
1 24330.00000-24370.00000	0.00100%	51.0dBm		10M0D7W Digital Modulation Rate: Digital Modulation Rate Type: 10M0G1D Digital Modulation Rate: Digital Modulation Rate Type:
2 24370.00000-24410.00000	0.00100%	51.0dBm		10M0D7W Digital Modulation Rate: Digital Modulation Rate Type: 10M0G1D Digital Modulation Rate: Digital Modulation Rate Type:
3 24410.00000-24450.00000	0.00100%	51.0dBm		10M0D7W Digital Modulation Rate: Digital Modulation Rate Type: 10M0G1D

2	24370.00000-24410.00000	0.00100%	51.0dBm		10MOD7W Digital Modulation Rate: Digital Modulation Rate Type: 10MOG1D Digital Modulation Rate: Digital Modulation Rate Type:
3	24410.00000-24450.00000	0.00100%	51.0dBm		10MOD7W Digital Modulation Rate: Digital Modulation Rate Type: 10MOG1D Digital Modulation Rate: Digital Modulation Rate Type:

Buildout Dates | COSER/IRAC

ULS Help	ULS Glossary - FAQ - Online Help - Technical Support
ULS Online Systems	CORES/Call Sign Registration - ULS Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By Call Sign <input type="text"/> = <input type="text"/> <input type="button" value="SUBMIT"/> <input type="button" value="RESET"/>



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Internal License Search

Digital Electronic Message Service - Common Carrier License - WMF840 - TELIGENT, INC.

[? HELP](#)

Path 2 Detail - Buildout Dates

[New Search](#) [Refine Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#) [Map License](#)

[MAIN](#)
[ADMIN](#)
[LOCATIONS](#)
[PATHS](#)

Call Sign	WMF840	Radio Service	CE - Digital Electronic Message Service - Common Carrier
4 Total Paths		Path: <input type="text" value="2"/> <input type="button" value="GO"/>	
Return to Paths Summary			

Path 2

[Return to Path Detail](#) | Buildout Dates | [COSER/IRAC](#)

Build Out Dates Buildout Dates For Path:

Frequency	First Use	Deadline	Notification
24330.00000-24370.00000			
24370.00000-24410.00000			
24410.00000-24450.00000			

ULS Help	ULS Glossary - FAQ - Online Help - Technical Support
ULS Online Systems	CORES/Call Sign Registration - ULS Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home



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Path 2 Detail - COSER/IRAC

- [New Search](#)
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- [Map License](#)

- MAIN
- ADMIN
- LOCATIONS
- PATHS**

Call Sign	WMF840	Radio Service	CE - Digital Electronic Message Service - Common Carrier
4 Total Paths		Path: <input type="text" value="2"/> <input type="button" value="GO"/>	
Return to Paths Summary			

Path 2

[Return to Path Detail](#) | [Buildout Dates](#) | COSER/IRAC

COSER Canadian Coordination COSER/IRAC For:

Frequency	Number	Request Type	Result
24330.00000-24370.00000			
24370.00000-24410.00000			
24410.00000-24450.00000			

IRAC Interference Coordination

Frequency	FAS Docket	FCCM	FAA NG	Result
24330.00000-24370.00000				
24370.00000-24410.00000				
24410.00000-24450.00000				

Internal License Search

License Search

Geographic Search

[? HELP](#)

[License Search Home](#)

Specified Search

The following search criteria will be applied in addition to any information specified below.

Radio Service CE

[Modify Search Criteria](#)

Geographic Search Criteria

State/County

You may search on state, county, or both. Use the state list to filter the list of counties. Please be aware that searching on multiple states or counties may result in slower search results.

State(s)

- Armed Forces-Eur., Mid. East, Afr., Can.
- California**
- Colorado
- Connecticut

County(s)

- CA-ALAMEDA
- CA-ALPINE
- CA-AMADOR
- CA-BUTTE

Address

A radius greater than 200 miles may result in slow response time and is not recommended.

Street

City

CA-AMADOR
CA-BUTTE

Address

A radius greater than 200 miles may result in slow response time and is not recommended.

Street

City

State

ZIP Code

Radius Kilometers

Coordinates

This search is based on NAD 83 coordinates ([convert from NAD 27](#)). A radius greater than 200 miles may result in slow response time and is not recommended.

Latitude ° ' " N (+)

Longitude ° ' " W (+)

Radius Kilometers

Frequencies

Any Frequency

Frequency Exact MHz

Range MHz to MHz

SUBMIT **RESET**



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Internal License Search

License Search Search Results

[? HELP](#)

- [New Search](#)
- [Refine Search](#)
- [Printable Page](#)
- [Query Download](#)
- [Map License](#)

Specified Search

State = **California**
 Radio Service = **CE**
 Frequency Upper Band >= **24250**
 Frequency Assigned <= **24450**

13 Matches (all results displayed)

PA = Pending Application(s)

	Call Sign	Licensee Name	FRN	Radio Service	Status	Expiration Date
1	PA WMF843	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
2	PA WMF844	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
3	PA WMT306	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
4	PA WMT314	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
5	PA WMT320	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
6	PA WMT336	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
7	PA WMT337	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
8	PA WMT348	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
9	PA WPJC396	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
10	PA WPNH291	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
11	PA WPNH292	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
12	PA WPNH293	TELIGENT, INC.	0004371415	CE	Active	02/01/2011
13	PA WPNH294	TELIGENT, INC.	0004371415	CE	Active	02/01/2011

POST-AUCTION LICENSING

- Licensees are permitted to add, remove, or relocate sites within its service area without prior Commission approval unless requirements otherwise set forth in our rules would entail the filing of a separate authorization.
- Separate filings may be required for:
 - (1) National Environmental Policy Act (NEPA) (See Section 1.1301 through 1.1319).
 - (2) Quiet Zones (See Section 1.924)
 - (3) Antenna structure requirements (See Part 17)
 - (4) Restrictions regarding border areas under international agreement.
 - (5) Any applicable technical rules in Part 101.

POST-AUCTION LICENSING

- A Public Notice will be released announcing the close of the auction (“Closing PN”)
- Winning bidders will be required to file:
 - FCC Form 601 Main Form
 - Schedule B along with other required attachments.
 - FCC Form 602 Ownership Disclosure Form
- New two-letter Radio Service Code will be TZ
- License Term will be ten years.
- Renewal expectancy is based on a showing that the licensee is providing substantial service.